92/1725 PATENT IT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Frank L. Hall

Serial No.: 09/863,676

Filed: May 21, 2001

For: METHODS FOR PREPARING BALL GRID ARRAY SUBSTRATES VIA USE OF

A LASER

Confirmation No.: 1281

Examiner: S. Heinrich

Group Art Unit: 1725

Attorney Docket No.: 2269-4718US

(00-0316.00/US)

CERTIFICATE OF MAILING

I hereby certify that this correspondence along with any attachments referred to or identified as being attached or enclosed is being deposited with the United States Postal Service as First Class Mail on the date of deposit shown below with sufficient postage and in an envelope addressed to the Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

October 12, 2004

Signature

Deborah L. Hendricks

Name (Type/Print)

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In compliance with the duty to disclose information material to patentability pursuant to 37 C.F.R. § 1.56, it is respectfully requested that this Supplemental Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record. Copies of U.S. patents are <u>not</u> being submitted pursuant to M.P.E.P. 609 III A(2). Copies of foreign patent documents and non-patent literature are enclosed pursuant to 37 C.F.R. § 1.98(a)(2). The listed documents were cited by the Office in

co-pending applications Serial No. 10/791,190, filed on March 2, 2004; and Serial No. 10/791,194, filed on March 2, 2004 and directed to a related inventions.

In accordance with 37 C.F.R. § 1.97(g) and (h), filing of this Supplemental Information Disclosure Statement is not to be construed as a representation that a search has been made or an admission that the information cited herein is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b). Further, no representation is made by Applicant herein that no other possible material information as defined in 37 C.F.R. § 1.56 (b) exists.

U.S. Patent Documents

U.S. Patent No.	Publication Date	<u>Patentee</u>
US - 3,866,398	02/1975	Vernon et al.
US - 4,752,668	06/1988	Rosenfield et al.
US - 4,894,115	01/1990	Eichelberger et al.
US - 5,104,480	04/1992	Wojnarowski et al.
US - 5,147,680	09/1992	Slysh
US - 5,442,416	08/1995	Tateyama et al.
US - 6,242,079	06/2001	Mikado et al.
US - 6,245,677	06/2001	Haq
US - 6,376,290	04/2002	Gosain et al.
US - 6,537,743	03/2003	Motokui et al.
US - 6,550,989	04/2003	Haley et al.

Applicant offers to supply any explanation or discussion of the documents which the Examiner feels is necessary or desirable and which is requested.

This Supplemental Information Disclosure Statement is filed after the mailing date of the Notice of Allowance, but before payment of the issue fee.

I hereby certify that no item of information contained in the Supplemental Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of the statement. Pursuant to 37 C.F.R. § 1.97(d)(ii), applicant hereby requests consideration of the accompanying Supplemental Information Disclosure Statement. The fee pursuant to 37 C.F.R. §1.17(p) for consideration of this Supplemental Information Disclosure Statement is enclosed.

Respectfully submitted,

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Date: October 12, 2004

JRD/dlm:dlh

Enclosures: Form PTO-1449 or PTO/SB/08

Check No. 6778 in the amount of \$180.00

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Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE at of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

TRADEME Substitute for form 1449A/PTO Complete if Known INFORMATION DISCLOSURE Application Number 09/863,676 May 21, 2001 Filing Date STATEMENT BY APPLICANT First Named Inventor Frank L. Hall Group Art Unit 1725 (use as many sheets as necessary) Examiner Name S. Heinrich 2269-4718US (00-0316.00/US) Sheet Attorney Docket Number

			U.S. PATENT D	OCUMENTS	
Examiner Initials *	Cite No. t	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant
		US-3,866,398	02/1975	Vernon et al.	Figures Appear
		US- 4,752,668	06/1988	Rosenfield et al.	
		US- 4,894,115	01/1990	Eichelberger et al.	
		US- 5,104,480	04/1992	Wojnarowski et al.	
		US- 5,147,680	09/1992	Slysh	
		US- 5,442,416	08/1995	Tateyama et al.	
		US- 6,242,079	06/2001	Mikado et al.	
		US- 6,245,677	06/2001	Haq	
		US- 6,376,290	04/2002	Gosain et al.	
		US- 6,537,743	03/2003	Motokui et al.	
		US- 6,550,989	04/2003	Haley et al.	
		US-			

	FOREIGN PATENT DOCUMENTS					
Examiner Cite Initials* No.	Cite	Foreign Patent Document		Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
	1	Country Code ³ - Number ⁴ - Kind Code ⁵ (<i>if known</i>)	Publication Date MM-DD-YYYY	Applicant of Cited Document		
			 			
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Examiner Signature	Date Considered	

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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.